

Leading the Launch



IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY

*Delivering a payload of
responsive technologies*



Technology Deployment



HOME OF SCIENCE AND ENGINEERING SOLUTIONS



Planetary Mixer for MLLW Waste Stabilization

Problem

INEEL's Waste Generator Services group needed to treat liquid mixed low-level waste (MLLW) for disposal.

Baseline Technology

Absorption of liquid MLLW on combustible media and incineration in the Waste Experimental Reduction Facility (WERF) incinerator.

Innovative Technology

A Planetary Mixer was modified to allow in-drum mixing of liquid MLLW and dry-fed additives.

Comparison

This mixer and associated material handling equipment allows direct stabilization of liquid MLLW.

Benefits

This mixer enabled the group to treat liquid MLLW by a non-thermal process.